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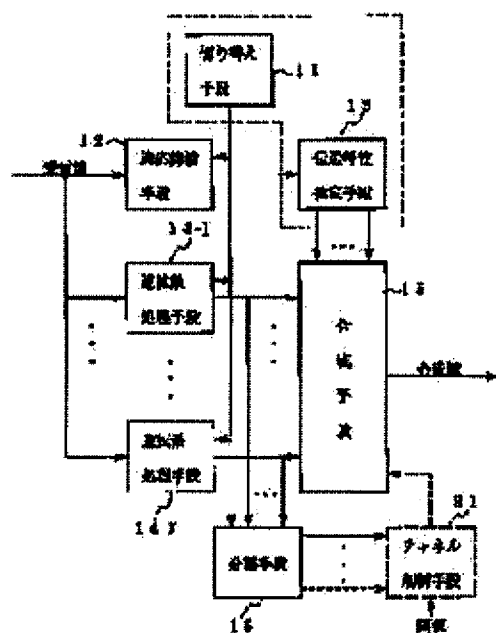
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(54) RECEIVER ADAPTIVE TO CDMA SYSTEM



(57)Abstract:

PROBLEM TO BE SOLVED: To make a hardware small without reducing performance and to flexibly cope with a moving operation form by sharing an adaptive filtering means and a transmissive characteristic estimating means for receiving of receiving waves that separately arrive through a main path and a spare path under the lead of a switching means.

SOLUTION: A switching means 11 creates plural diffusing codes which cross at right angles, and an adaptive filtering means 12 detects plural maximal values of cross-correlation between the diffusing codes and a receiving wave that arrives through a multipath. A transmissive characteristic estimating means 13 detects a phase of elements through a main path that corresponds to an descending order of the maximal values. A synthesizing means 15 compresses and synthesizes diffusive

demodulating waves that are separately created by plural inverse diffusion processing means 14 which are provided in accordance with main and spare paths and the difference of a phase and a level which are detected by the means 13 to acquire a synthetic wave of a demodulation object. This surely compensates diffusion in the direction of a time axis which is caused by the multipath and improves a transmission quality.